

Features

- Compact size
- Moistureproof semi-glue filling design
- Input and output terminals for wiring
- Flicker free
- 5-year warranty (please refer to the warranty condition)



Applications

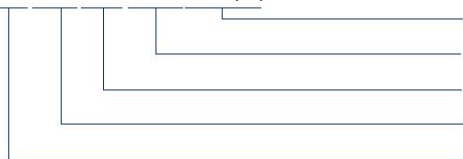
· Decorative lighting · indoor office lighting

Descriptions

LF-GIR007YSIIxxxxH/H(D) is an isolated constant current LED driver with the maximum output power of 7W. Its rated input voltage ranges from 220 to 240Vac and its output voltage has 2 range options, including 5-10Vdc and 30-40Vdc. It is suitable for Class II light fixtures such as spot light, down light and so on.

Product Model

LF- GIR 007 YSII xxxx H/H(D)



- H: input voltage: 220-240Vac; (D): output voltage: 5-10V
- xxxx: output current (e.g. 0700: 700mA)
- Y: conforms to certifications; S: serial number; II: the 2rd gen.
- 007: maximum output power: 7W
- G: isolated design; IR: indoor LED driver series

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■ Electrical Characteristics 1

Model		LF-GIR007YSIIxxxxH(D)				
Output	Output Voltage	5-10Vdc				
	Output Current	350mA	500mA	600mA	700mA	
	Flicker	Complies with IEEE 1789 standard.				
	CIE SVM	≤0.4				
	IEC-Pst	≤1.0				
	Current Tolerance	±7%				
	Temperature Drift	±10%				
	Startup Time	<0.5S				
Input	Input Voltage	220-240Vac (voltage limit: 198-264Vac)				
	Input Frequency	47Hz-63Hz				
	Input Current	0.12A max.				
	DF	>0.5				
	Efficiency	≥73%	≥76%	≥76%	≥76%	
	Inrush Current	≤20A&110uS				
	Loading Quantities of Circuit Breaker	Model	B10	C10	B16	C16
		Quantity (pcs)	40	65	70	85
	Leakage Current	≤0.7mA				
Standby Power Consumption	≤0.5W					
Protections	Open Circuit	<35V				
	Short Circuit	Hiccup mode (auto-recovery)				
Environment Descriptions	Operating Temperature	-20°C - +50°C				
	Operating Humidity	0-90%RH (without condensation)				
	Storage Temperature/ Humidity	-30°C - 80°C (6 months in Class I environment); 0-95%RH (without condensation)				
	Atmospheric Pressure	86-106kPa				

■ Electrical Characteristics 1

Safety and EMC	Certifications	CE, CB, RCM, SAA, CCC
	Withstanding Voltage	I/P-O/P: 3.75kV&5mA&60S
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc
	Safety Standards	CE-LVD: EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015, EN 62493: 2015 CB: IEC 61347-1: 2015, IEC61347-2-3: 2014, IEC 61347-2-13: 2014/AMD1: 2016 CCC: GB19510.1-2009, GB19510.14-2009 SAA: AS 61347.2-13: 2018
	EMI	CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3 CCC: GB/T17743, GB17625.1, GB17625.2
	EMS	CE-EMC/RCM: EN61000-4-2, 3, 4, 5 (lightning strike 1kV), 6, 11 CCC: GB/T17626.2, 3, 4, 5 (lightning strike 1kV), 6, 11
Other Parameters	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty	5 years (Tc≤79°C)
Testing Equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, withstanding voltage tester: EEC SE7440, flicker tester (flicker-free coefficient test) Everfine LFA-3000, etc.	
Additional Remarks	<ol style="list-style-type: none"> 1. It is recommended that user install the over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. 2. The LED driver used in combination with the end device is one of the accessories of the whole light fixture, and the EMC of the whole light fixture is not only susceptible to the driver itself, but to the LED light fixture and the whole light fixture's wiring. Thus, the manufacturer of LED light fixture should re-confirm the EMC of the whole light fixture before the whole light fixture is finished. 3. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current. 4. The PC cover, casing and end cap for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above. 5. The above parameters are tested at the ambient temperature of 25°C, humidity of 50%, full load and input voltage of 230Vac/50Hz without any special remarks. 	

■ Electrical Characteristics 2

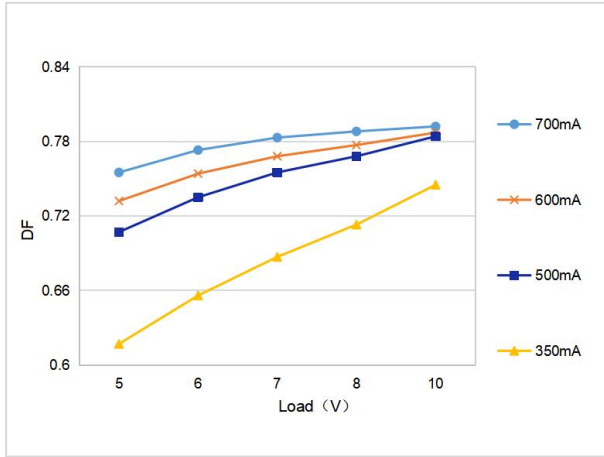
Model		LF-GIR007YSIIxxxxH				
Output	Output Voltage	30-40Vdc				
	Output Current	70mA	110mA	135mA	160mA	180mA
	Flicker	Complies with IEEE 1789 standard.				
	CIE SVM	≤0.4				
	IEC-Pst	≤1.0				
	Current Tolerance	±7%				
	Temperature Drift	±10%				
	Startup Time	<0.5S				
Input	Input Voltage	220-240Vac (voltage limit: 198-264Vac)				
	Input Frequency	47Hz-63Hz				
	Input Current	0.12A max.				
	DF	>0.5				
	Efficiency	≥72%	≥78%	≥77.5%	≥80%	≥78.5%
	Inrush Current	≤20A&110uS				
	Loading Quantities of Circuit Breaker	Model	B10	C10	B16	C16
		Quantity (pcs)	40	65	70	85
	Leakage Current	≤0.7mA				
	Standby Power Consumption	≤0.5W				
Protections	Open Circuit	<80V				
	Short Circuit	Hiccup mode (auto-recovery)				
Environment Descriptions	Operating Temperature	-20°C - +50°C				
	Operating Humidity	0-90%RH (without condensation)				
	Storage Temperature/ Humidity	-30°C - 80°C (6 months in Class I environment); 0-95%RH (without condensation)				
	Atmospheric Pressure	86-106kPa				

■ Electrical Characteristics 2

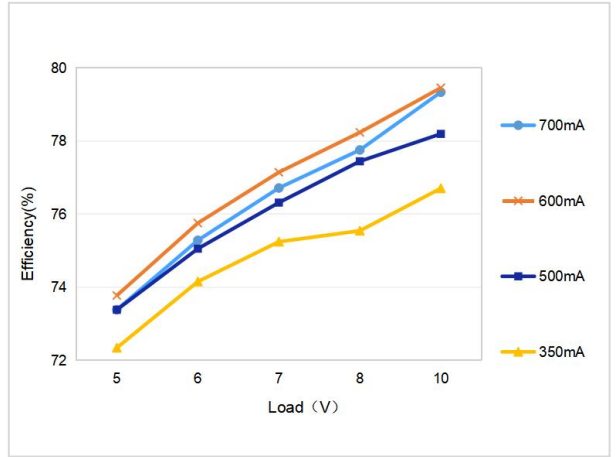
Safety and EMC	Certifications	CE, CB, RCM, SAA, CCC
	Withstanding Voltage	I/P-O/P: 3.75kV&5mA&60S
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc
	Safety Standards	CE-LVD: EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015, EN 62493: 2015 CB: IEC 61347-1: 2015, IEC61347-2-3: 2014, IEC 61347-2-13: 2014/AMD1: 2016 CCC: GB19510.1-2009, GB19510.14-2009 SAA: AS 61347.2-13: 2018
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Other Parameters	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty	5 years (Tc≤79°C)
Testing Equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, withstanding voltage tester: EEC SE7440, flicker tester (flicker-free coefficient test) Everfine LFA-3000, etc.	
Additional Remarks	<ol style="list-style-type: none"> 1. It is recommended that user install the over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. 2. The LED driver used in combination with the end device is one of the accessories of the whole light fixture, and the EMC of the whole light fixture is not only susceptible to the driver itself, but to the LED light fixture and the whole light fixture's wiring. Thus, the manufacturer of LED light fixture should re-confirm the EMC of the whole light fixture before the whole light fixture is finished. 3. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current. 4. The PC cover, casing and end cap for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above. 5. The above parameters are tested at the ambient temperature of 25°C, humidity of 50%, full load and input voltage of 230Vac/50Hz without any special remarks. 	

■ Product Characteristic Curves

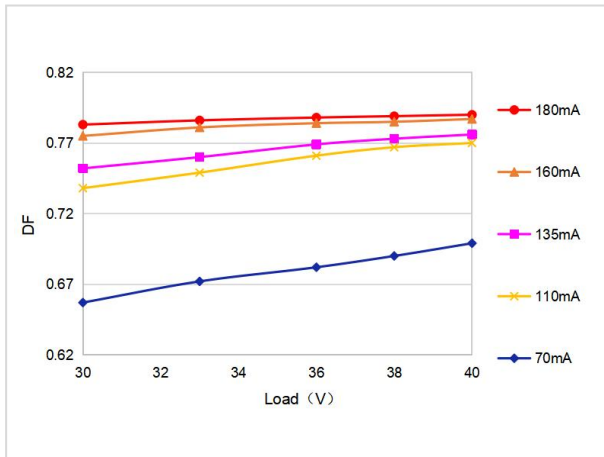
DF Curve 1



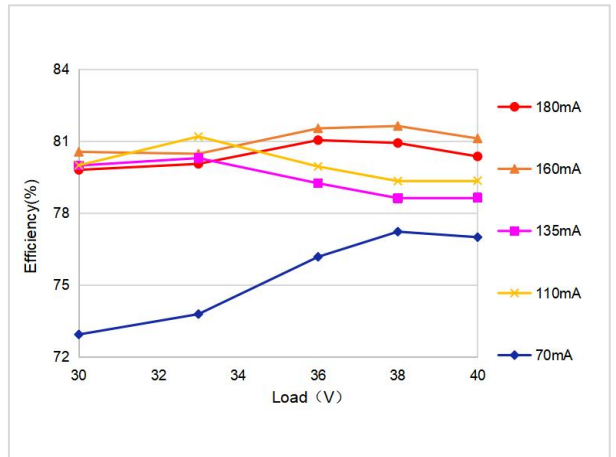
Efficiency Curve 1



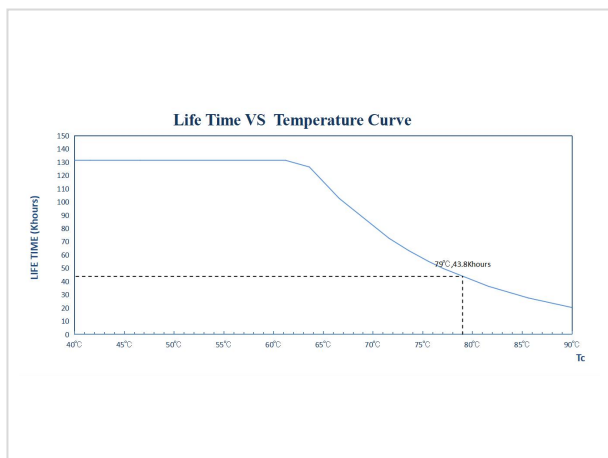
DF Curve 2



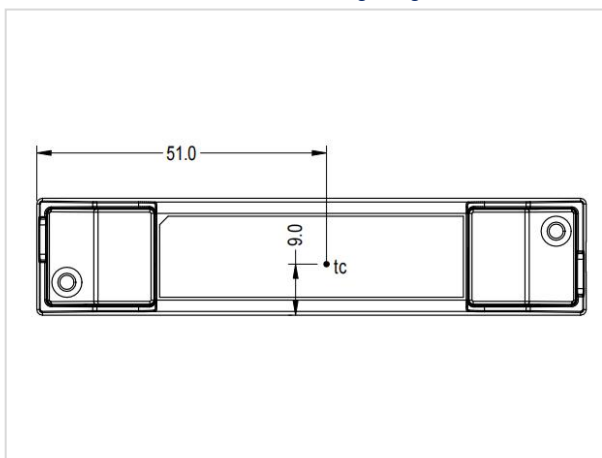
Efficiency Curve 2



Lifetime Curve



Tc Point Testing Diagram



■ Definitions of Product Terminals

INPUT	
AC-L	Input terminal of AC live wire
AC-N	Input terminal of AC neutral wire

OUTPUT	
LED+	Positive Electrode Output of LED Driver
LED-	Negative Electrode Output of LED Driver

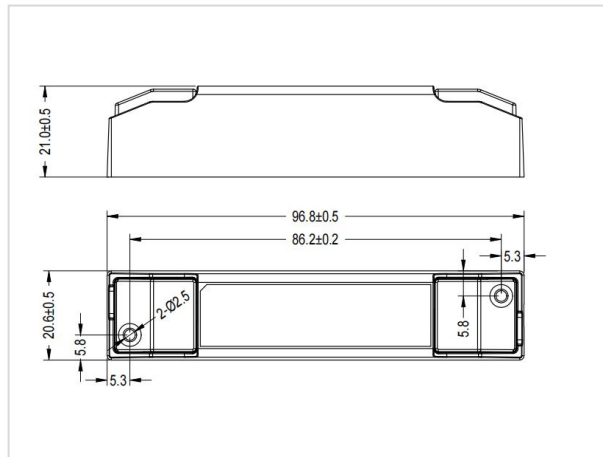
■ Label

Lifud		Model: LF-GIR007YSIIxxxxH(D)	
INPUT		Un: 220-240V ~ In: 0.12A	
AC-L	AC-N	Uout: 5-10V = max. 35Vdc	OUTPUT
		Iout: xxxmA(CC) ta: 50°C	LED+
		Fri: 50/60Hz • ttc: 90°C	LED-
		Pout: x.xW DF: ≥0.5	0.5-1.0
For LED modules only LED Driver(LED控制装置) 中国制造			

Lifud		Model: LF-GIR007YSIIxxxxH	
INPUT		Un: 220-240V ~ In: 0.12A	
AC-L	AC-N	Uout: 30-40V = max. 80Vdc	OUTPUT
		Iout: xxxmA(CC) ta: 50°C	LED+
		Fri: 50/60Hz • ttc: 90°C	LED-
		Pout: x.xW DF: ≥0.5	0.5-1.0
For LED modules only LED Driver(LED控制装置) 中国制造			

■ Structures and Dimensions (unit: mm)

Overall Appearance Dimensions (L×W×H)	Screw Specification
96.8*20.6*21 mm	Round head self-tapping screw PA3*8



■ Packaging Specifications

Model	LF-GIR007YSIIxxxxH/H(D)
Carton Size	385*285*210mm (L*W*H)
Quantity	24 pcs/layer; 9 layers/ctn; 216 pcs/ctn
Weight	0.028 kg/pc; 6.6 kg/ctn

Remark: the weights of dust-proof end caps and screws are excluded from the above table; the LED drivers are packed separately from dust-proof end caps and screws.

■ Transportation and Storage

1. Transportation

- Suitable transportation means: vehicles, boats and aeroplanes.
- In transit, it is necessary to prepare awnings for rain or sun protection. Moreover, please keep civilized loading and unloading to prevent the vibration or impact of LED driver as much as possible.

2. Storage

- The storage of LED driver shall conform to the standard of Class I environment. When using LED drivers which have been stored for more than 6 months, please re-test them firstly. Do not use them unless they are tested to be qualified.

Cautions

- Please use Lifud LED driver according to its parameters in the specification, otherwise the LED driver may malfunction.
- Using any incompatible light fixtures or those that have not been certified may cause fire, explosion or other risks.
- Man-made damage is beyond the scope of Lifud warranty service.

Remark: Lifud Tecnology Co., Ltd. reserves the right to interpret any contents of this specification.